

“STANDARD SOLUTIONS for everyday requirements, SPECIFIC SOLUTIONS for special requirements”

This is our philosophy here at Opera, because we want every one of our products to deliver top results.

Now and in the future.

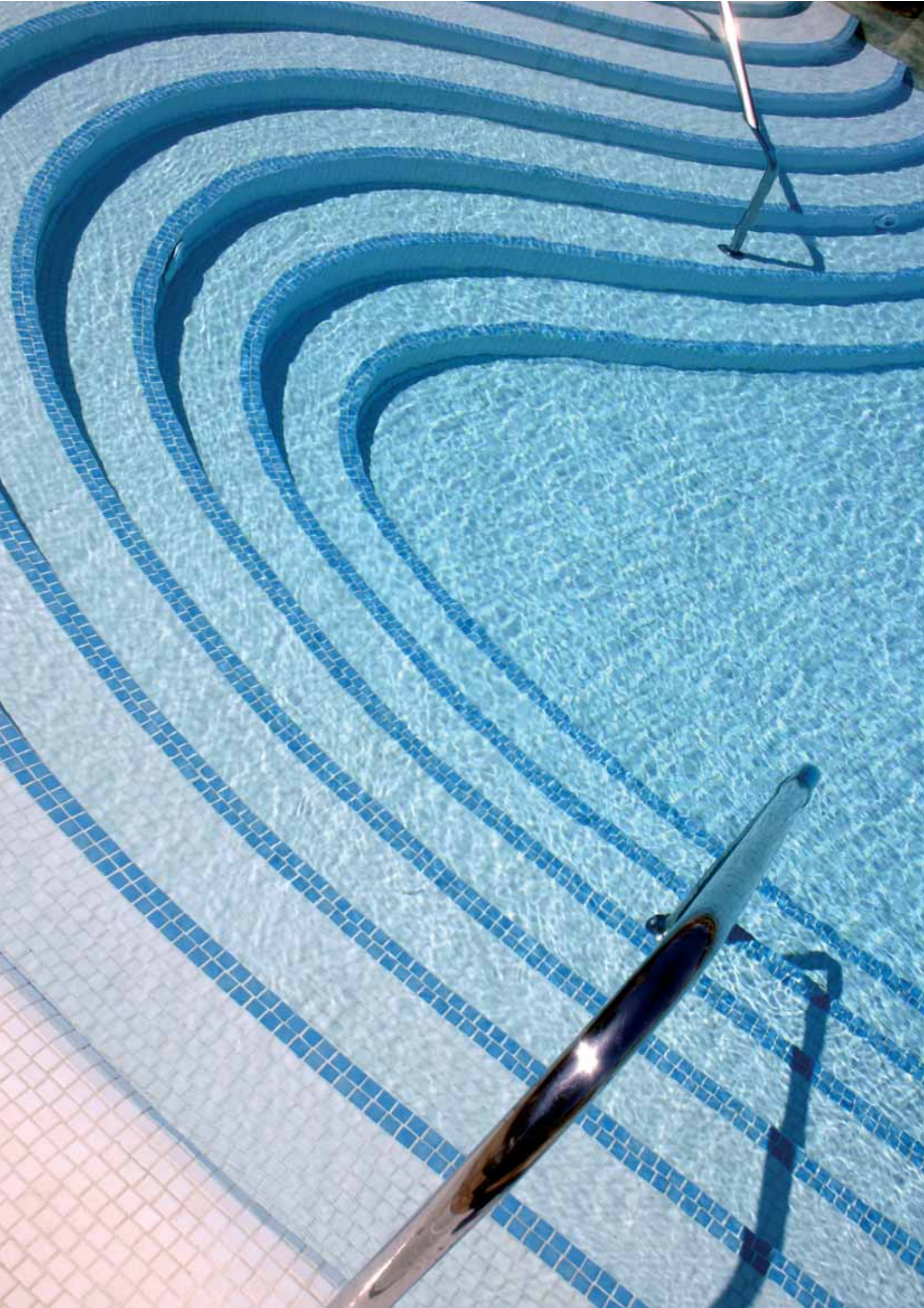
Our strengths:

- Easy to use: our products are designed to meet all building industry needs quickly and effortlessly.
- A precise goal. Opera products are focused on a clear mission: to find the right balance between the ideas of designers and the needs of our users.
- Constant technical assistance: thanks to the professionalism and availability of our engineering department, we can guarantee our customers prompt and precise assistance both before and after the sale.
- Certification: the entire range of Opera products is certified as EU-compliant.
- Best price/quality ratio: technologically advanced materials at the right price, so that our solutions are always economically attractive: and that means both in useful life and costs terms.
- Ongoing research and development: over 30 years of non-stop business in the specialist building industry means we can guarantee our customers constantly evolving techniques and a company that always keeps pace with the market.



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Scudo

Two-part cement-based elastic waterproofing membrane

Form:	Grey powder (part A) White latex (part B)
Packs:	24 + 8 kg
Pallet:	1440 + 480 kg
Quantities required:	1.7 kg/m ² per mm of thickness

Main features

- Two-part
- Waterproof
- Prevents carbonation
- Protects concrete
- Spray applicable

Storage

Scudo can be kept for up to 12 months if stored in a dry place and in its original packaging. Provide part B with protection from frost and direct sunlight.

Quality and Environmental Standards

Scudo undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Always apply several coats, making sure you wait until the previous coat is dry before applying the next;
- do not apply in thicknesses of over 3 mm per coat;
- always follow the mixing ratio recommended for the two parts;
- do not apply in temperatures below +8°C;
- protect against rain for at least 24 hours;
- if laying on very porous substrates (such as lightened screed or foamed clay), provide ventilating shafts every 25 m² to release the dampness in the substrate.

Fields of application

Scudo is suitable for the following:

- protecting concrete (pillars, beams, etc) from the deterioration and mechanical decay caused by carbonation and aggressive elements;
- for elastic waterproofing and insulating bearing structures for baths and swimming pools before laying the ceramic tiling;
- waterproofing showers, terraces and roofs before laying covering materials or cladding;
- waterproofing old balconies in preparation for laying new flooring without removing the existing floor;
- flexible smoothing on prefabricated concrete constructions subject to vibrations and warping;
- as a waterproofing membrane and to protect foundation walls;
- as an elastic smoothing coat for plaster/render with microcracking.

Preparation: the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, form release oils, paint, wax, rust or efflorescence. Repair any holes or uneven sections with **Fibrocem** and any shrinkage splits or cracks with **Eposan**. With concrete bases, remove any cast joint burrs and wait at least 30 days for setting. Before application, drench the base with water and then remove the surplus with compressed air, a liquid suction system or with absorbent cloths in order to obtain a slightly damp base which, nevertheless, has a dry surface. Old floors must have wax and grease removed and must be washed. To do this, use the **Detergente Basico**. Provide the surface on which you will be applying the product with protection from direct sunlight beforehand. For external surfaces, always make expansion joints in position with those in the screed.

Application: to obtain a smooth mixture, pour the latex (part B) into a container first, and then add the powder (part A) mix with a mechanical mixer at a low speed to prevent too much air being mixed in until you have a lump-free paste. During the summer, keep the packs of **Scudo** away from direct sunlight before use. One 8 kg drum of latex is needed for each 24 kg bag of powder. To mix smaller amounts, always use a mixing ratio of 1 part latex to 3 parts powder. Do not add water, aggregates or hydraulic binders. If the mixture is already hardening, do not attempt to use it by adding water or part B (liquid) to make it workable again. Wait approx. 6 days after applying **Scudo** before laying tiles and lay with wide joints (at least 3 mm), using an adhesive such as **RT universal** or **Aquaria**. For swimming pools, use **S9 Ultrawhite + Isoflex** (ratio = 1:1 with water) or **Aquaria**. When waterproofing terraces, balconies or swimming pools, we always recommend you add **Rete in Fibre di Vetro** (fibreglass mesh) to the first layer of **Scudo**. During the waterproofing stage, be careful with the expansion joints and the joint between the horizontal and vertical surfaces, where **Scudoband** must be used.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	part A: irritant Part B: none
Specific weight of mixture:	1.80 g/cm³
Pot life:	approx. 60 minutes
Application temperature:	from +8°C to +35°C
Mixing ratio:	part A: part B = 3:1
Average waiting time before applying 2nd coat:	approx. 4 hours
Waiting time before laying ceramic tiles:	5 days
FINAL PERFORMANCE SPECIFICATIONS	
Adhesion to concrete after 28 days:	1.2 N/mm²
Total minimum thickness:	2 mm
Maximum thickness obtainable:	5 mm
Waterproof degree:	excellent
Room/ambient temperature:	from -30°C to +70°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Scudoband

Non-woven polyester, suitable for sealing and waterproofing expansion joints, corners and joint areas between horizontal and vertical surfaces

- Form:** grey elastomer
- Packs:**
- Scudoband roll (50 m x 12 cm)
 - internal corner
 - external corner
 - small seal (12 x 12 cm)
 - Large seal (42.5 x 42.5 cm)
- Quantities required:** specified in metres or pieces

Fields of application

Scudoband

- sealing perimeter and expansion joints between walls

and floor;

- waterproofing expansion and dividing joints.

Preparation: the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. The base must be dry and well established. Provide the laying surface with protection from direct sunlight beforehand.

Application: apply a thin smoothing coat (**Sanigum** or **Scudo**) to the edges of the corners and/or the joints. Apply the **Scudoband** to the coat while it is still wet, pressing down firmly with smooth trowel. When spreading the **Sanigum** or **Scudo** waterproofing coat, remember to take it a few centimetres higher than the **Scudoband**. When waterproofing dividing joints, position **Scudoband** so that it is forming an upside-down omega shape, i.e. the middle section of the band is lining the joint, so that it can be exposed to tension without tearing.

Main features

- Totally waterproof
- Waterproofs against both pressure and back pressure
- Easy to apply
- UV-resistant
- Deformable even in low temperatures

Storage

Unlimited.

Quality and Environmental Standards

Scudoband undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- To guarantee a perfect seal in the corners, use **Scudoband** corner pieces;
- when making dividing joints, lay **Scudoband** by attaching the edges and using the middle section to line the joint (forming an upside-down omega shape).

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Application temperature:	from +5°C to +35°C
Height:	12 cm
Total weight:	565 g/m ²

FINAL PERFORMANCE SPECIFICATIONS

Vapour flow resistance coefficient:	approx. 30000 μ
Tensile strength:	2.5 N/mm ²
Acid resistance:	excellent
Resistance to damp, solvents, oil, alkalis, and ageing:	excellent
Temperature resistance:	from -30°C to +70°C
Water pressure resistance:	1.5 bar
Elongation at break (lateral):	> 220%
Harmonised customs code:	39219090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Scudoband Adesivo

Self-adhesive butyl rubber band for sealing and waterproofing joint areas between horizontal and vertical surfaces

Form: Grey elastomer
Packs: roll (10 m x 8 cm)
Quantities required: specified in metres

Main features

- Self-adhesive
- Totally waterproof
- Easy to apply
- UV-resistant
- Deformable even in low temperatures

Storage

Unlimited.

Quality and Environmental Standards

Scudoband Adesivo undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Do not use for dividing joints;
- do not use in areas subject to rising damp.

Fields of application

Scudoband Adesivo is suitable for the following:

- sealing perimeter and expansion joints between walls and floor;

Preparation: the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. The base must be dry and well established. Provide the laying surface with protection from direct sunlight beforehand.

Application: remove the protective silicon tape from the back of the **Scudoband Adesivo**. Then position the band so that is it half on the vertical surface and half on the horizontal surface, pressing down firmly to make sure it sticks. When spreading the **Sanigum** or **Scudo** waterproofing coat, remember to take it a few centimetres higher than the **Scudoband Adesivo**.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Application temperature:	from +5°C to +35°C
Height:	8 cm
Total weight:	750 g/m ²

FINAL PERFORMANCE SPECIFICATIONS

Water pressure resistance:	0.2 bar
Tensile stress at break (long.):	29 N/15mm
Tensile stress at break (cross.):	23 N/15mm
Elongation at break:	100 %
Acid resistance:	excellent
Resistance to damp, solvents, oil, alkalis, and ageing:	excellent
Temperature resistance:	from -35°C to +70°C
Harmonised customs code:	39219090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Rete in Fibre di Vetro

Reinforcement for waterproofing membrane and outer claddings, for interiors and exteriors

Form: white mesh
Packs: roll (50 m x 1 m)
Pallet: 1500 mt
Quantities required: specified in metres

Main features

- Treated with alkali-proof starch
- Suitable for cladding (certified ETAG 004)
- Reduces membrane cracks and splits
- Waterproofing and smoothing action

Storage
 Unlimited.

Quality and Environmental Standards

Rete in Fibre di Vetro undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - (UNI EN ISO 9001/2000).

Fields of application

Reinforcement for:

- **Scudo**, used for waterproofing terraces, balconies, swimming pools, baths, showers, etc which are due to be fitted with ceramic or natural stone tiles;
- **Scudo**, applied as an elastic, protective smoothing coat to cement-based articles with microcracking inside and outside;
- **Sanigum**, when used as a break-resistant liner on

- screeds or walls with microcracking indoors;
- cladding made of polystyrene and foamed polyurethane, rockwool, cork, etc. with **Isoterm** or **Resigum**.

Application: apply the waterproofing or smoothing product with a smooth trowel in an even layer (approx. 1-1.5 mm). While this coat is still wet, lay the **Rete in Fibre di Vetro** (fibreglass mesh) and press it down gently with the trowel so that it is embedded in the product. When the surface is treadable (generally after 12-24 hours, depending on the type of product used, the temperature, the dampness of the room and the thickness of the coat), apply (if instructed by the product information sheet) the second coat. The **Rete in Fibre di Vetro** (fibreglass mesh) sheets must overlap by at least 10 cm.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Weight:	150 g/m ² ± 5%
Mesh opening dimensions:	4.2 x 5.4 mm
Resistance to alkalis:	yes
Roll height:	1 m
Roll length:	50 m

FINAL PERFORMANCE SPECIFICATIONS

Elongation at break:	3.5 ± 1,5%
Tensile strength - traction (ETAG 004 5.6.7.1):	≥ 2000 N/5 cm
Tensile strength - ageing (ETAG 004 5.6.7.2):	≥ 1000 N/5 cm
Harmonised customs code:	70199099

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Ensure the edges of the adjacent mesh sheets overlap by at least 5 cm;
- do not use instead of **Scudoband** for waterproofing perimeter joints.



Sanigum

Ready-to-use, thin-layer, elastic waterproofing membrane

Form: White or grey paste
Packs: 4 - 10 kg
Pallet: 256 - 480 kg
Quantities required: 1.5 kg/m² per mm thick

Main features

- One-part
- Split-proof membrane
- Ready for use
- Excellent workability
- High grip

Storage

Sanigum can be kept for up to 24 months if stored in a dry place and in its original packaging. Do not expose to frost and high temperatures

Quality and Environmental Standards

Sanigum undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not lay in areas subject to permanent water stagnation;
- do not apply to cementitious substrates that are damp or subject to rising damp;
- do not apply to surfaces that are constantly immersed in water, such as swimming pools, baths, and fountains;
- do not apply **Sanigum** in temperatures below +10°C;
- do not use on surfaces subject to heavy foot traffic without laying ceramic or stone tiles;
- do not leave the containers exposed to sunlight before use;
- do not apply to non-oxidised bitumen membranes.

Fields of application

Sanigum is suitable for the following:

- waterproofing baths, kitchens, and shower enclosures,

before laying the flooring or wall tiling;

- waterproofing plasterboard walls without applying a primer.

Preparation:

the base must be flat, sound, and compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax; the base must be dry and well-set. Provide the laying surface with protection from direct sunlight beforehand. When the temperature is above +25°C, we recommend you dampen laying bases with low absorbency beforehand to prevent non-standard drying out of the smoothing coat.

On extremely porous surfaces, apply a first coat of **Sanigum** diluted with 10% water, then leave it to set. When laying on old tiles, make sure these are well anchored and clean beforehand with **Detergente Basico**.

Application: Sanigum can be applied with a trowel, roller, brush, or spray (of the airless variety).

Sanigum is a ready-to-use product and does not need to be diluted with water. Mix well before use. Do not add other aggregates or hydraulic binders. The product must be applied evenly and in thin coats (max. 2 mm); wait until the first coat is dry (1-2 hours) before applying the next coats (crosswise). The final thickness of the coat must never be less than 2 mm so that it creates an elastic, waterproof film. If the mixture is already hardening, do not attempt to restore workability by adding water. To guarantee a perfectly waterproof seal, **Scudoband** should be positioned between the vertical and horizontal surfaces.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Mixture pH:	8.5
Specific weight :	1.5 g/cm³
Minimum filming temperature:	+5°C
Application temperature:	from +10°C to +40°C
Formation of surface film:	3 hours
Complete setting (3 mm thick):	7 days
Elongation at break according to DIN 53504 after 28 days at +23°C:	600%
Water absorption (as a percentage of weight) according to UNI 8202/22:	7%
Resistance to oils, acids and alkalis:	fair
Resistance to ageing:	excellent
Room/ambient temperature:	from -30°C to +100°C
Harmonised customs code:	40021100

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Osmocem

Cement-based osmotic waterproofing mortar for thicknesses ranging from 5 to 20 mm

Form: grey powder
Packs: 25 kg
Pallet: 1500 kg
Quantities required: 1.85 kg/m² per mm thick

Main features

- One-part
- Machine applicable
- Waterproofs against both pressure and back pressure

Storage

Osmocem can be kept for up to 12 months if stored in a dry place and sealed in its original packaging.

Quality and Environmental Standards

Osmocem undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not use **Osmocem** to solve condensation problems indoors (use dehumidifying plaster, ventilate the rooms, create suitable insulation);
- do not apply **Osmocem** to surfaces subject to traffic of any kind, or surfaces where it may be damaged by falling objects; in the event, protect with a cement screed (**Basecem Pronto**) approx. 4/5 cm thick;
- do not apply to bases that have already been treated with paint, resin, or bitumen products, unless these have been completely removed;
- do not apply to gypsum or anhydrite surfaces.

Fields of application

Osmocem is suitable for the following:

- waterproofing against both pressure and back pressure on surfaces with uneven sections ranging from 5 to 15 mm (or spots of up to 20 mm);
- in constructions designed to hold water, possibly with harsh properties (for example: canals, tanks, pipelines);
- waterproofing basements, cellars, foundation walls, terraces, bathrooms, lift wells, and swimming pools.

Preparation: the surface to waterproof must be perfectly clean and sound. Any parts that are crumbling or coming away, along with dust, traces of form remover oil, varnish or paint applied previously, must be removed by thorough brushing or washing with high-pressure water jets. Existing plaster/render must be perfectly anchored to the substrate. Seal any cracks in the substrate or gravel nests and repair the deteriorated parts with **Fibrocem Tissotropico** (see relative technical info sheet). Soak the substrate with water until it is saturated. Wait until the excess water evaporates.

Application: pour the amount of water required for the type of application and the desired consistency into a suitable clean container. Then blend in the **Osmocem** using a mechanical stirrer at low speed. Mix for a few minutes until a smooth consistency is obtained. Do not add other aggregates or hydraulic binders. Leave the mix to rest for approx. 10 minutes, remix and then apply. If the mixture is already hardening, do not attempt to restore workability by adding water. **Osmocem** can also be applied with a plastering machine. We recommend you treat the base with a first coat, trowelled on to a thickness of no more than 10 mm. When this layer starts to set, apply a second layer (if necessary), then even out and float-finish. It is advisable not to leave more than 24 hours between one coat and the next. We recommend you ensure the mortar penetrates deeply so that the surface to waterproof is well sealed. The thickness of the coat must never be less than 5 mm. In the event of bases subject to the constant presence of water or pressurised water of up to 5 bar, increase the thickness up to at least 10 mm (carry out tests before application).

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	18-19% (weight) - i.e. 5 l per 25 kg bag)
Specific weight of mixture:	1.85 g/cm³
Mixture pH:	approx. 12
Application temperature:	from +5°C to +35°C
Pot life:	2 hours at +20°C
Minimum thickness per coat:	5 mm
Maximum thickness per coat:	10 mm
Maximum overall thickness:	20 mm
Ready for use:	15 days
FINAL PERFORMANCE SPECIFICATIONS	
Adhesion to concrete after 28 days:	2 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Resistance to water back pressure (5 mm thick):	3 bar
Resistance to water back pressure (10 mm thick):	5 bar
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Osmocem Fine

Cement-based osmotic waterproofing and smoothing coat for joints ranging from 1 to 10 mm

Form: grey powder
Packs: 25 kg
Pallet: 1500 kg
Quantities required: 1.7 kg/m² per mm thick

Main features

- One-part
- Applicable by machine and brush
- Waterproofs against both pressure and back pressure.

Storage

Osmocem Fine can be kept for up to 12 months if stored in a dry place and sealed in its original packaging.

Quality and Environmental Standards

Osmocem Fine undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not use **Osmocem Fine** to solve condensation problems indoors (use dehumidifying plaster, ventilate the rooms, create suitable insulation);
- do not apply **Osmocem Fine** to surfaces subject to traffic of any kind, or surfaces where it may be damaged by falling objects; in the event, protect with a cement screed (**Basecem Pronto**) approx. 4/5 cm thick;
- do not apply to bases that have already been treated with paint, resin, or bitumen products, unless these have been completely removed;
- do not apply to gypsum or anhydrite surfaces.

Fields of application

Osmocem Fine is suitable for the following:

- waterproofing in thin layers against both pressure and back pressure;
- constructions designed to hold water, possibly with harsh properties (for example: canals, tanks, pipelines);
- waterproofing basements, cellars, foundation walls, terraces, bathrooms, lift wells, and swimming pools.

Preparation: the surface to waterproof must be perfectly clean and sound. Any parts that are crumbling or coming away, along with dust, traces of form remover oil, varnish or paint applied previously, must be removed by thorough brushing or washing with high-pressure water jets. Existing plaster/render must be perfectly anchored to the substrate. Seal any cracks in the substrate or gravel nests and repair the deteriorated parts with **Fibrocem Tissotropico** (see relative technical info sheet). Soak the substrate with water until it is saturated. Wait until the excess water evaporates.

Application: pour the amount of water required for the type of application and the desired consistency into a suitable clean container. Then blend in the **Osmocem Fine** using a mechanical stirrer at low speed. Mix for a few minutes until a smooth consistency is obtained, and do not add other aggregates or hydraulic binders. Leave the mix to rest for approx. 10 minutes, remix and then apply. If the mixture is already hardening, do not attempt to restore workability by adding water. **Osmocem Fine** can also be applied with a plastering machine.

We recommend you treat the base with a first coat, trowelled on to a thickness of no more than 2 mm. When this layer starts to set, apply a second layer (if necessary), then even out and float-finish. It is advisable not to leave more than 24 hours between one coat and the next. We recommend you ensure the mortar penetrates deeply so that the surface to waterproof is well sealed. The thickness of the coat must never be less than 1 mm or more than 2 mm.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	24% (weight) - i.e. 6 l per 25 kg bag
Specific weight of mixture:	1.70 g/cm ³
Mixture pH:	approx. 12
Application temperature:	from +5°C to +35°C
Pot life:	1 hour at +20°C
Minimum thickness per coat:	1 mm
Maximum thickness per coat:	2 mm
Maximum overall thickness:	10 mm
Ready for use:	10 days

FINAL PERFORMANCE SPECIFICATIONS

Adhesion to concrete after 28 days:	> 1.5 N/mm ²
Room/ambient temperature:	from -30°C to +90°C
Resistance to back pressure (1 mm thick):	2 bar
Resistance to back pressure (2 mm thick):	5 bar
Vapour permeability:	10 μ
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Aquastop

Ultra-fast-setting and hardening cement-based waterproofing mortar

Form:	grey powder
Packs:	5 kg
Pallet:	600 kg
Quantities required:	1.8 kg/lt (volume of the space to fill)

Main features

- Non-shrink
- Frostproof
- Sets instantly

Storage

Aquastop can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Aquastop undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Aquastop is suitable for the following:

- stopping water infiltrations;

- sealing and waterproofing cracks and holes;
- sealing rigid joints between flooring and walls.

Preparation:

the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. The base must be dry and well established. Provide the laying surface with protection from direct sunlight beforehand. When the temperature is above +25°C, we recommend you dampen laying bases with low absorbency beforehand to prevent non-standard drying out of the mortar.

Application:

mix **Aquastop** with clean water, using a trowel to obtain a smooth, lump-free paste. Do not add other aggregates or hydraulic binders. When deciding how much mixture to make up, bear in mind that this is an instant-setting product; do not attempt to restore workability by adding water. Cracks of less than 3 mm must be widened by at least 20% to facilitate penetration and, consequently, how well the **Aquastop** grips. Apply the **Aquastop** with a trowel, stopping up the infiltrations. Press the product firmly into the infiltration until it is completely set. Repeat the operation if necessary.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	27% (weight) - i.e. approx. 1.3 l per 5 kg bag
Mixture pH:	13
Setting time:	approx. 1 minute
Application temperature:	from +5°C to +30°C
Maximum thickness per coat:	5 mm
FINAL PERFORMANCE SPECIFICATIONS	
Compression resistance after 3 hours:	10 N/mm²
Compression resistance after 24 days:	15 N/mm²
Compression resistance after 28 days:	45 N/mm²
Harmonised customs code:	38235090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Keep the packs of **Aquastop** away from sunlight before application;
- measure out the amount of water required, making sure you do not exceed the amounts specified on the pack;
- on gypsum or anhydrite bases, use **Primer GS** beforehand.



Epoxidro

Two-part epoxy anchorage primer

Form:	pale yellow liquid
Packs:	10 kg (8.5 Epoxidro +1.5 curing agent)
Pallet:	480 kg
Quantities required:	0.150-0.200 kg/m ² depending on the porosity of the substrate

Main features

- Two-part
- High penetration
- Specific for **Hydroplast** and **Vinplast**
- Excellent adhesion to any base

Storage

Epoxidro can be kept for up to 12 months if stored in its original packaging in temperatures no lower than +5°.

Quality and Environmental Standards

Epoxidro undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Epoxidro is suitable for the following:

- as an adhesion promoter on concrete and plaster/

render;

- as a primer for **Hydroplast** or **Vinplast**.

Preparation: the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. The base must be dry and well established. Provide the laying surface with protection from direct sunlight beforehand.

Application: mix the **Epoxidro** with its curing agent, following the mixing ratios recommended for the two parts. For better penetration on the base, we recommend you add denatured alcohol (max. 10% of weight). Mix until a creamy, lump-free, and evenly coloured paste is obtained. Put on safety gloves and goggles before beginning the application. **Epoxidro** can be applied by brush or roller.

Warning

- Do not use on surfaces that are damp or subject to rising damp;
- working in high temperatures or on surfaces exposed to direct sunlight reduces the product's setting time considerably;
- bear in mind that temperatures below +12°C can also lengthen the setting time considerably and workability may be reduced due to the hardness of the mixture.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant (part A) corrosive (part B)
Mixing ratio:	part A: part B = 8.5 : 1.5
Specific weight of mixture:	1.2 g/cm³
Brookfield viscosity (mPa.s):	8,000 (spindle 2, rpm 10)
Pot life:	2 hours
Application temperature:	from +10°C to +30°C
Maximum time within which the product can be covered:	24 hours
Completely set:	2 days
Harmonised customs code:	32099000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Hydroplast

Two-part epoxy coating for drinking water containers

Form: Light blue paste (Hydroplast)
Pale yellow liquid (curing agent)

Packs: 5 kg + 1.5 kg

Quantities required: 1.8-2 kg/m²
per 2.5 mm thick

Main features

- Two-part
- Non-toxic
- Glazing
- High abrasion resistance
- Waterproofing

Storage

Hydroplast can be kept for up to 12 months if stored in a dry place and in its original packaging. Protect against temperatures below + 10°C;

Quality and Environmental Standards

Hydroplast undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not use on surfaces that are damp or subject to rising damp;
- working in high temperatures or on surfaces exposed to direct sunlight reduces the product's setting time considerably;
- bear in mind that temperatures below +12°C can also lengthen the setting time considerably and workability may be reduced due to the hardness of the mixture;
- in temperatures below +5°C, the setting reaction does not occur;
- always apply **Epoxidro** strengthening primer beforehand.

Fields of application

Hydroplast is suitable for the following:

- covering surfaces intended to come into contact with drinking water, such as in water potabilisation

plants if they contain free chloride or ozone;

- coating parts which come into contact with foodstuffs in machinery such as hoppers, autoclaves, kneading machines.

Preparation: if applying **Hydroplast** to concrete, the base must be flat, sound, have no parts coming away and no dust, grease, form release oils, paint, wax, rust or efflorescence on it. Repair any holes or uneven sections with **Fibrocem**. With concrete bases, remove any cast joint burrs and wait at least 30 days for setting. On iron, steel or metal bases in general, remove all traces of rust, old paint, grease etc. by brushing or sanding.

Application: to obtain a smooth mixture, pour the curing agent into the **Hydroplast** container and mix carefully with a helical blade stirrer. **Hydroplast** can be applied with an airless spray gun, brush or roller. To obtain a more fluid mix, you can add denatured ethyl alcohol (max 1 kg per 10 kg). This decreases the gloss and chemical resistance. During application and for the following two days, the temperature of the base must be between 10°C and 40°C. The relative humidity must not exceed 85%. During application, the base must be perfectly dry and there should be no condensation occurring.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant (Hydroplast) - corrosive (curing agent)
Specific weight of mixture:	1.6 g/cm³ (Hydroplast) 1.03 g/cm³ (curing agent)
Application temperature:	from +5°C to +40°C
Average waiting time before applying 2nd coat:	approx. 12/24 hours
Average thickness per coat:	1.5/2 mm
Ready for use:	4/6 days
Appearance of the film:	pale blue, glossy
Porosity (ElektroPhysic PoroTest at 2000 Volts):	no pores
Recommended thickness:	2.5 - 3 mm (in special cases: up to 7.5 mm)
Touch dry:	12 hours
Dry throughout:	24 hours
FINAL PERFORMANCE SPECIFICATIONS	
Waterproof degree:	excellent
Room/ambient temperature:	from -20°C to +80°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Idrosilk

Colourless waterproofing coat for ceramic tiles, natural stoneware and cementitious surfaces

Form:	Clear liquid
Packs:	5 l
Pallet:	450 l
Quantities required:	from 0.1 to 0.2 l/m ²

Main features

- Protects against direct rainfall
- High penetration capacity
- UV-resistant
- Prevents carbonation
- Droplet effect

Storage

Idrosilk can be kept for up to 12 months if stored in sealed its original airtight packaging in temperatures no higher than +30° and away from direct sunlight.

Quality and Environmental Standards

Idrosilk undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not apply to surfaces that are damp or subject to rising damp;
- wash the surface to treat carefully before application and wait long enough for it to dry;
- apply in a thin layer, avoiding build-ups;
- handle with care, protect eyes, and rinse off any parts that may come into contact with the product. In more serious cases of exposure, seek medical advice.

Fields of application

Idrosilk is suitable for the following:

- as a protective coating against general stains and dirt for terracotta, bricks, porcelain stoneware, and stone materials, and to facilitate maintenance;
- as a waterproofing and protective coating for cement constructions, joints between tiles, ceramic materials, marbles, natural and artificial stone materials, mineral paints, concrete, plaster/renders, asbestos cement;
- as a pre-treatment for terracotta and polished stoneware before grouting the joints;
- as a treatment for built-in kitchens and marble washbasins.

Preparation: the surfaces to treat with Idrosilk must be perfectly dry, and not subject to rising damp; they must have been washed and have no dust, grouting residues, rings or efflorescence, grease, wax, or oil on them. To ensure correct cleaning, the following can be used: **Detergente AC** for cement residues and efflorescence and **Detergente Basico** to clean off organic substances such as grease or mildew.

Application: Idrosilk ready for use. The product should ideally be applied with a brush, preferably without applying particular pressure, but can it also be airbrushed on. Apply a few coats, wet on wet, until the substrate is completely saturated. Do not wait too long between the application of one coat and the next. The next coat can be applied when the primer is absorbed and the surface is no longer glossy. Spread the product evenly, avoiding build-ups which could leave stains and rings. If used as a pre-treatment before sealing the joints, Idrosilk facilitates the final floor cleaning process.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	flammable
Application temperature:	from +5°C to +30°C
Room/ambient temperature:	from -30°C to +80°C
Walk-over time	12 hours
Ready for use:	approx. 3 days
Harmonised customs code:	32081090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Idrosilk A

Water-repellent silicon primer in aqueous solution for external walls

Form: milky liquid
Packs: 10 l
Pallet: 600 l
Quantities required: from 0.1 to 1 l/m² depending on the porosity of the base

Main features

- Protects against direct rainfall
- Odourless and solvent-free
- Prevents carbonation
- Droplet effect
- Self-cleaning and prevents weed growth
- High vapour permeability

Storage

Idrosilk A can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Idrosilk A undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Idrosilk A is suitable for the following:

- water-repellent protective coating for high-prestige historical buildings;

- protecting walls made of exposed brick, concrete, cellular cement, natural and artificial stone.

Preparation: the surfaces to treat with **Idrosilk A** must be perfectly dry and not subject to rising damp; they must have been washed and have no dust, cement residues, rings or efflorescence, grease, wax, oil, moss or weeds on them, or anything else which could prevent the penetration of the **Idrosilk A**.

Application: do not dilute with water. **Idrosilk A** can be applied by brush or roller, spreading it evenly over the surface. The effectiveness and duration of the water-repellent properties depends on the absorption capacity of the base. Apply in several coats, continuously until the base is saturated.

Warning

- Do not use in basements or lift pits, or in any constructions subject to pressurised water;
- do not use on gypsum surfaces;
- do not use on synthetic plasters/renders or synthetic paintwork;
- do not use on horizontal surfaces;
- protect the treated surface against rain for at least 24 hours.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Application temperature:	from +5°C to +30°C
Setting time:	approx. 2 hours
Flammability:	no
Harmonised customs code:	38249095

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



SOL B.T.

Solvent-based bitumen paint

Form: Black liquid paste
Packs: 10 kg
Pallet: 600 kg
Quantities required: 100-300 g/m² per coat

Main features

- Ready for use
- Easy to apply, with a roller, brush or spray
- Withstands diluted acids and harsh elements found in the soil and the air

Storage

Sol B.T. can be kept for up to 12 months if stored in its original packaging, in temperatures no lower than 5°C and away from direct sunlight.

Quality and Environmental Standards

Sol B.T. undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not apply **Sol B.T.** to wet or damp substrates;
- do not apply **Sol B.T.** indoors in un-ventilated areas;
- do not use **Sol B.T.** to waterproof containers for food use.

Fields of application

Sol B.T. is suitable for the following:

- waterproofing walls and foundations exposed to soil.
- painting concrete tanks and cement constructions in general that are exposed to slightly harsh solu-

tions;

- rust-proofing metal constructions, gutters;
- as an adhesion promoter for bases before laying bitumen membranes.

Preparation: the base must be sound, flat, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. The base must be dry and well established. With metal bases, carefully remove any rust with appropriate equipment.

Application: mix **Sol B.T.** for a short while before applying it. Proceed by applying the first coat with a brush, roller or spray. Wait until the first layer is completely dry (approx. 30 minutes at + 20°C) and then apply the second coat.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	harmful if inhaled - inflammable
Acid resistance:	good
Resistance to ageing:	excellent
Flammability:	yes
Final setting:	approx. 20 minutes
Harmonised customs code:	27150000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

